



**BdV Behrens GmbH**



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## CERTIFICATE OF ANALYSIS #67975

As received from our supplier

**Product** : Sorbitol 70 % Solution(NON-CRYSTALLZING)  
**Quantity** : 24 MT net  
**Productions date** : 26/11/2022  
**Expiry date** : 26/01/2024

**Batch no.** : 3961/BDV

### Product properties Physical and chemical analysis

PARAMETERS	MIN	MAX	RESULT	REFERENCE METHOD
PHYSICAL FORM	Clear, colorless, viscous water-miscible liquid		Confirms	EURO.PH 9.0.04/2015/0437
APPEARANCE	Clear, colorless solution		Confirms	EURO.PH 9.0.04/2015/0438
TASTE	Unique Taste		Confirms	EURO.PH 9.0.04/2015/0437
ODOR	Unique Odor		Confirms	EURO.PH 9.0.04/2015/0438
IDENTIFICATION TESTS A,B,C	—	—	Confirms	A.Principle peak in chromatogram(HPLC) B.Angle of rotation C.Clear, syrupy liquid at 25°C
DRY SUBSTANCE	69,5	71,0	70,50	TL.LB.60
REFRACTIVE INDEX (20°C)	1,4580	1,4616	1,4604	TL.LB.60
DENSITY	1,28	1,30	1,30	TL.LB.60
WATER (%)	29,0	30,5	29,50	EXTERNAL ANALYSIS
PH	5,0	7,5	5,9	TL.LB.41
CONDUCTIVITY (µS/cm)	—	10	2,00	TL.LB.45
SULPHATED ASH (IN DRY BASIS) (%)	—	0,1	<0,1	TL.LB.34
CHOLRIDE (mg/kg)	—	50	<50	TL.LB.139
SULPHATES (mg/kg)	—	100	<100	TL.LB.29
D-SORBITOL (anhydrous substance)	72,00	92,0	76,30	TL.LB.78
REDUCING SUGAR (as glucose in dry basis) (%)	—	0,2	<0,2	TL.LB.59
REDUCING SUGAR AFTER HYDROLYSIS (TOTAL SUGAR) (as glucose in dry basis) (%)	—	9,3	<9,3	USP-NF
ANGLE OF OPTICAL ROTATION (DEG.)	+1,5	+3,5	2,7	EUR.PH VERSION NUMBER 9.0
RESIDUE ON IGNITION %	—	0,1	<0,1	EUR.PH VERSION NUMBER 9.0
ACIDITY (0,01 N NaOH) (ml)	—	0,2 ml	<0,2	TL.LB.188
ETHYLENEGLYCOL (mg/kg)	—	1000	<1000	EUR.PH VERSION NUMBER 9.0
DIBETHYLENEGLYCOL (mg/kg)	—	1000	<1000	EUR.PH VERSION NUMBER 9.0
SOLUBILITY	Totally Soluble		Confirms	—
HEAVY METAL ANALYSIS	MIN	MAX	RESULT	EXTERNAL ANALYSIS
NICKEL (ppm)	—	1,0	<1,0	EXTERNAL ANALYSIS
LEAD (ppm)	—	0,5	<0,5	EXTERNAL ANALYSIS
ARSENIC (ppm)	—	1,0	<1,0	EXTERNAL ANALYSIS
HEAVY METALS (in terms of Pb) (ppm)	—	10	<10	EXTERNAL ANALYSIS
MICROBIOLOGICAL ANALYSIS	MIN	MAX	RESULT	
MOULD (cfu/g)	—	10	<10	TL.LB.127
OSMOPHILIC YEAST (cfu/g)	—	10	<10	TL.LB.20
ESCHERICHIA COLI (ABSENT IN 1 Gram)	—	NEGATIVE	NEGATIVE	TL.LB.17
SALMONELLA AB (ABS IN 25 G)	—	NEGATIVE	NEGATIVE	EXTERNAL ANALYSIS
ENTEROBACTERIA (cfu/g/ml)	—	NEGATIVE	NEGATIVE	ISO 21528-1
STAPHYLOCOCCUS AUREUS (cfu/10 gram)	—	NEGATIVE	NEGATIVE	TL.LB.18
PSEUDOMONAS AERUGINOSA (cfu/10 gram)	—	NEGATIVE	NEGATIVE	EXTERNAL ANALYSIS

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